CIWC EXHIBIT 3.0 (Rev.)

CONSUMERS ILLINOIS WATER COMPANY

REVISED DIRECT TESTIMONY

OF

CRAIG M. CUMMINGS

1 2 3		CIWC EXHIBIT NO. 3.0 (Rev.)
4 5 6		CONSUMERS ILLINOIS WATER COMPANY
7		REVISED DIRECT TESTIMONY
8 9		OF CRAIG M. CUMMINGS
10		
11		WITNESS IDENTIFICATION AND BACKGROUND
12		
13	Q.	Please state your name and business address.
14	A.	Craig M. Cummings, 322 North Gilbert Street, Danville, Illinois 61834.
15		
16	Q.	By whom are you employed and in what capacity?
17	A.	I am Executive Vice President and General Manager of Consumers Illinois Water
18		Company ("CIWC" or "Company").
19		
20	Q.	Please state your educational, professional and business background and experience
21		leading up to your current position.
22	A.	I graduated from Eastern Illinois University, Charleston, Illinois in May 1980, receiving a
23		Bachelor of Science Degree in Environmental Biology. My professional affiliations include
24		the Illinois Section of American Water Works Association, in which I am the immediate
25		past Chairman and also sit on the Education Committee. Other professional affiliations
26		include the National Association of Water Companies and the Illinois Potable Water
27		Operators Association of which I served as President in 1998. I hold a Class A Water
28		Operators Certification from the State of Illinois. I also serve as laboratory director for the
29		Company's Illinois Department of Public Health (IDPH) regulated laboratory. My 20 years
30		of water utility experience includes employment in 1979 as a summer university intern at
31		Kankakee Water Company (now Consumers Illinois Water Company) in which I worked
32		in all phases of production and maintenance at the Kankakee treatment plant. Following

my graduation from college in 1980, I worked as a laboratory analyst/operator for the City of DeKalb, Illinois, a deep well groundwater supply. During my employment with DeKalb, I was involved with the day-to-day maintenance and operation of the deep wells. I also attained top Illinois Environmental Protection Agency (IEPA) certification as a water plant operator and was also certified by the IDPH to work in a water quality laboratory. In May 1983, I assumed the position of Treatment Technician/Laboratory Director with the City of Decatur, Illinois. In this position, I supervised the City's two treatment plants, including all operations and laboratory personnel. In May 1989 I assumed the position of Production Manager for Inter-State Water ("ISW") Company, (now Consumers Illinois Water Company), in which I was responsible for the operations within the Production Department. My duties included, among other things, preparing annual and long-term capital and operating budgets, personnel supervision, planning and design input for the construction of the new ISW treatment facility and the operation and maintenance of the Company's dam and source of supply, Lake Vermilion. I was promoted to my current position of Executive Vice President and General Manager in February 1994.

A.

Q. What are your responsibilities as Executive Vice President and General Manager of CIWC?

I have overall responsibility for the day-to-day operations of the Vermilion Division. I also assist the Company President and other officers in developing goals and objectives for the Company and in administering policies and procedures as approved by the Board of Directors of the Company. It is my responsibility to ensure that these goals and objectives are achieved. I, along with other Company officers, represent the Company before governmental and regulatory agencies. I, along with others, formulate financial objectives and budgets and provide the direction necessary to meet those objectives while remaining within budgetary guidelines. I am part of the management team, which establishes employee levels, working conditions, and safety requirements within guidelines established by the Board of Directors and the President of the Company. My responsibilities include

establishing guidelines for negotiation of labor contracts with the labor union representing employees in the Vermilion Division, as well as other special contracts. I have the responsibilities associated with developing and controlling the Company's operating and maintenance and capital budgets, as well as providing direction in the areas of construction, purchases or other acquisitions, operation, maintenance and protection of all property, facilities and equipment required to maintain water quality standards and continuity of service.

8

1

2

3

4

5

6

7

9 Q. Have you previously testified in regulatory matters?

10 A. Yes. I testified before this Commission in <u>Consumers Illinois Water Company</u>, Docket 95-11 0237, which addressed the need for land rights to conduct groundwater testing; Docket 12 97-0351, a rate proceeding; Docket 98-0265, a certificate case; Docket 99-0449, a 13 financing case; and most recently, Docket 00-0337, a rate proceeding.

14

15

16

- Q. Are you familiar with the property, business and operations of the Vermilion County Division?
- 17 A. Yes, I am.

18

19 **Q.** What is the purpose of your testimony?

A. The purpose of my testimony is to sponsor CIWC Exhibit 3.1, which contains historical data regarding QIP Surcharge for the Vermilion Division. The data is required by Part 656.90 (1)(b). In addition, I will discuss the specific needs of the Vermilion Division with regard to infrastructure replacement. I sponsor CIWC Exhibit 3.2, which is a report that details the infrastructure program for the Vermilion Division.

25

Q. Would you address the specific needs of the Vermilion Division in this regard?

27 A. The Division has several significant, unique and pressing needs with respect to 28 infrastructure investment in the coming years. Specifically, the replacement of private

water lines, the replacement of undersized water mains, the absence of fire hydrants in populated areas, the presence of fire hydrants on undersized water mains and distribution system caused water quality and/or low pressure complaints are all critical issues which must be addressed by the Division. In addition, meters need to be replaced due to the advanced age of the current meters in the system.

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

A.

1

2

3

4

5

Q. What are private water lines?

Private water lines are the result of the business practices of the owners prior to the Company being purchased by Consumers Water Company in 1986. The previous owners allowed customers desiring service, but not fronted by a water main, to connect the nearest water main via a long individual service line or a line installed to serve several residences or business. This practice avoided any cost to the previous company for a properly sized water main extension. It did, unfortunately, allow for improperly installed water lines of unspecified materials to be connected to the then existing distribution system. Several of these lines are known to traverse private property, alleys, etc. The best estimate of the total lineal footage of these private lines in the Division equate to approximately 27 miles of pipe. This detail is outlined in an in-house report titled Water Main Replacement Prioritization Program ("Program") completed for the Division by Company engineers, which addresses the prioritization of water main replacement projects, including the replacement of private water lines. Although not specifically called out in the report, the program will also address the installation of new and replacement fire hydrants, new and replacement valves and replacement service lines. These items are all normally replaced or added during a main replacement project.

2425

26

Q. Why is the Division replacing these private lines?

27 A. While the previous owners of the Company allowed these privately owned lines to be 28 installed, they also had a long-standing practice of maintaining these lines if there were any

leaks which occurred on the lines after their installation. This practice was no longer followed after Consumers Water Company purchased ISW in 1986. As a result, the Company initially refused to repair water lines that were owned by private individuals or businesses and in many cases were located upon private property to which the Company did not have an easement for maintenance. This led to several formal complaints to the Commission by private line owners whose lines were in need of repair. A settlement of these complaints was negotiated that outlined a clear and precise handling of this issue in the future. This settlement requires the Division to maintain private water lines after first having each customer attached to a private water line sign an agreement which specifies the Company's obligation to maintain and eventually replace the line. Also, there was an understanding between the Company and the Commission Staff that the Company would diligently work to replace all the private water lines with properly sized water mains and properly spaced fire hydrants to provide customers with adequate water volume and pressure, improved water quality and fire protection.

Α.

Q. What are the other significant needs for infrastructure investment in coming years?

- Among the other significant needs outlined in the Program are the replacement of undersized and aged water mains, fire hydrants attached to undersized water mains and distribution system caused water quality and/or low pressure complaints. Additionally, the Division has a large number of lead service lines which require replacement, and several thousand water meters which are non-remote reading and beyond their normal life expectancy. These needs are described as follows:
 - (1) The replacement of undersized and aged water mains. This is a significant issue because 34.7 miles of the Company-owned 247 miles of main, or 14 percent are less than 6 inches in diameter. As noted in the previous discussion of private water lines, another 27 miles of water lines are extremely undersized private water lines for which the Company has the responsibility for maintenance and eventual replacement. Additionally, over 100 miles of water main or approximately 40 percent of the

Company-owned distribution system is pre-1940 vintage, and much of this water main is likely to be 80 - 100 years old. Lastly, over 65 percent of the water mains in the Division are unlined cast iron pipe which has a much higher breakage frequency than ductile iron pipe, the material used most exclusively for mains installed in the Division since 1986.

- (2) **Fire hydrants attached to undersized water main.** There are 1,428 hydrants in the Division and of that total, 51 or 3.6 percent are attached to water mains that are 4 inches in diameter. These hydrants will be replaced to improve fire flows.
- (3) Distribution system caused water quality and/or low-pressure complaints. Due to the nature of the Division's distribution, i.e. a large percentage of undersized and unlined cast iron pipe, private water lines, inadequate distribution grid enforcement and a large number of dead-end lines, numerous water quality and/or low pressure complaints are encountered in specific areas of the distribution system. The area west of the North Fork of the Vermilion River is a prime example. This area, which contains population of approximately 5,000, is supplied by a single 10-inch transmission water main. The area has numerous private water lines, miles of unlined and undersized cast iron pipe and numerous dead-end water mains. This combination results in numerous annual water quality and/or pressure complaints. Other areas throughout the distribution system are plagued by the same problem. Capital projects will be completed annually to address these problems.
- (4) The replacement of lead service lines. Lead service lines were not viewed as problematic until the 1986 amendments to the SDWA. The amendments contained the Lead and Copper Rule which set stringent "Action Levels" for the regulation of lead and copper in drinking water. To avoid any potential violations of the Action Levels, the Division has a program to remove lead service lines from the distribution system. It is estimated that approximately 6,000 lead service lines still exist in the Division. The Division replaces approximately 100 lead service lines per year.

CH-1185534v1 6

(5) The replacement of old and non-remoted water meters. The Division has approximately 17,800 meters in the system. Of this total, approximately 3,600 of these meters are generator remote meters, non-remote meters or meters over 20 years old. All of these meters need to be replaced with current remote reading technology to insure accurate customer billings and the efficiencies that are derived from remote water meter reading. These and other significant investment must be made to allow the Division to provide safe, reliable water service in the coming years.

Q. Please comment on the data shown in CIWC Exhibit 3.1.

A. CIWC Exhibit 3.1 shows the failure rate as well as the replacement rate for the 1996-2002 period for the plant accounts applicable to T&D Mains, services, meters and hydrants. Data is shown on an historical basis for 1996-2000 and on a projected basis for 2001 and 2002. Each account is addressed below:

T&D Mains: The failure rate has been an average of 40.4 failures per year with an average replacement rate of 0.37 percent over the five-year period. Based on the current rate (0.37%) all water mains would be replaced over 270 years. This replacement cycle is well in excess of the 90-year average service life used in the most recent rate order, ICC Docket No. 00-0337, 00-0338 and 00-0339 consolidated. The replacement rate will continue to increase due to the advanced age of the water mains, and the need to provide reliable water service.

Services: The failure rate has been an average of 74 service failures per year with an average replacement rate of 0.33 percent. Based on the current replacement rate (0.33%) all services would be replaced over 300 years. This replacement cycle is well in excess of the 60-year average service life assigned to services in the most recent rate order, ICC Docket No. 00-0337, 00-0338 and 00-0339 consolidated. Furthermore, the failure and rate replacement rates do not reflect the further need to replace lead service lines whether they have failed or not. The replacement rate will increase driven by the age of the existing services and the large quantity of lead services that must be replaced.

"Meters: Complete stoppage of a meter is a rare circumstance. Generally, meters do not "fail" in this manner. They simply decline in accuracy below industry standards. Therefore, there is virtually no meter failure data available. However, the current average replacement rate is 8.63 percent. Based on the current replacement rate (8.63%) all meters would be changed out over 11.6 years. This replacement cycle is slightly longer than the 10-year testing (replacement) cycle established by the Commission. The replacement rate will increase to reach the 10-year testing schedule required by the Commission.

Hydrants: The failure rate has been an average of 27 hydrants per year with an average replacement rate of 1.96 percent. Based on the current replacement rate (1.96%) all hydrants would be replaced over 51 years. This replacement cycle is slightly in excess of

the 43-year average service life assigned to hydrants in the most recent rate case. Furthermore, the failure rate and replacement rate do not reflect the further need to replace two-way hydrants with three-way (two hose nozzles and a pumper nozzle) hydrants, the need to install auxiliary valves on hydrant branches so that a hydrant can be isolated from the water main without shutting down the main, and the need to replace hydrants on 4-inch water mains. All of these additional factors only exacerbate the replacement cycle problem. The replacement rate will increase due to the replacement of water mains and the current age of the hydrants.

9

1

2

3

4

5

6

7

8

10 Q. Is it your expectation that the replacement rates for the plant accounts listed in CIWC Exhibit 3.1 will increase?

12 A. Yes. For T&D mains, services and hydrants, I expect that it will. As shown, in CIWC
13 Exhibit 3.1, the replacement cycle for each of these accounts exceeded the average service
14 life used for the respective plant accounts in the most recent rate order ICC Docket No.
15 00-0337, 00-0338 and 00-0339 consolidated. The replacement rate for these accounts
16 must be increased so that the replacement cycle will more closely reflect the useful life of
17 these plant accounts. The average replacement rate for meters is not expected to change.

18

19

- Q. Have you prepared the information required by Part 656.90?
- 20 A. Yes, this information is included in CIWC Exhibits 3.1, 3.2 and 3.3.

21

- Q. Mr. Rakocy sponsors CIWC Exhibit 1.6 (Rev.), which includes an estimate of the
 January 1, 2002 Surcharge Percentage for Vermilion Division and preliminary
 estimates of the information which would accompany the filing of the December
 25 2001 Information Sheet. Would you comment on this information?
- A. Yes. The information contained in CIWC Exhibit 1.6 (Rev.) indicates a surcharge percentage for the Vermilion Division of 1.06%. The surcharge will provide a return on and return of the investment of approximately \$899,000 in needed new investment to replace infrastructure as discussed above. The year 2003 is expected to have a like amount

of investment. Years 2004 and 2005 are expected to both have greater investment (approximately \$1,200,000) while essentially exclusively addressing water main projects and meter replacements.

4

- 5 Q. Does this conclude your testimony?
- 6 A. Yes, it does.

7